

METHOD AND SYSTEM FOR OPTICALLY TRACKING A TARGET USING A
TRIANGULATION TECHNIQUE

ABSTRACT OF THE INVENTION

An optical position-tracking system comprises a first light beam
5 steering device for sweeping a first light beam through a first angular range
to cause a reflection of the first light beam by a target. Additionally, the
optical position-tracking system further comprises a second light beam
steering device for sweeping a second light beam through a second angular
range to cause a reflection of the second light beam by the target. Moreover,
10 the optical position-tracking system enables determination of a position of
the target using a triangulation technique utilizing a first angular value of the
first light beam and a second angular value of the second light beam. The
first angular value and the second angular value depend on the existence of
the respective reflection.